

**AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF THE CLAIMS**

1. (Currently amended) A lighting apparatus for emitting white light comprising:  
a semiconductor light source emitting radiation having a peak emission in the UV; and  
a phosphor composition radiationally coupled to the light source, the phosphor composition comprising  $(Sr,Ba,Ca)_2SiO_4:Eu$ , one or more garnet phosphors having the general formula  $(Y,Gd,La,Lu,T,Pr,Sm)_3(Al,Ga,In)_5O_{12}:Ce$ , and at least one of phosphor selected from the group consisting of  $(Sr,Mg,Ca,Ba,Zn)_2P_2O_7:Eu,Mn$ ;  $(Ca,Sr,Ba,Mg)_5(PO_4)_3(Cl,F,OH):Eu,Mn$ ;  $(Sr,Ba,Ca)MgAl_{10}O_{17}:Eu,Mn$ ; and/or  $Mg_4FGeO_6:Mn^{4+}$ .
2. (Original) The lighting apparatus of claim 1, wherein the light source is an LED.
3. (Original) The lighting apparatus of claim 2, wherein the LED comprises a nitride compound semiconductor represented by the formula  $In_iGa_jAl_kN$ , where  $0 \leq i; 0 \leq j, 0 \leq K$ , and  $i + j + k = 1$ .
4. (Original) The lighting apparatus of claim 1, wherein the light source is an organic emissive structure.
5. (Original) The lighting apparatus of claim 1, wherein the phosphor composition is coated on the surface of the light source.
6. (Original) The lighting apparatus of claim 1, further comprising an encapsulant surrounding the light source and the phosphor composition.

7. (Original) The lighting apparatus of claim 1, wherein the phosphor composition is dispersed in the encapsulant.
8. (Original) The lighting apparatus of claim 1, further comprising a reflector cup.
9. (Original) The lighting apparatus of claim 1, wherein said phosphor composition comprises  $(Sr_{0.95}Ba_{0.025}Eu_{0.025})_2SiO_4$ .
10. (Original) The lighting apparatus of claim 1, wherein said phosphor composition comprises  $(Sr_{0.58}Ca_{0.36}Eu_{0.06})_2SiO_4$ .
11. (Original) The lighting apparatus of claim 10, wherein said apparatus has a color point with a ccx value of 0.5286 and a ccy value of 0.4604.
12. (Original) The lighting apparatus of claim 1, wherein said phosphor composition further comprises one or more additional phosphor.
13. (Previously presented) The lighting apparatus of claim 12, wherein said one or more additional phosphors are selected from the group consisting of  
 $(Ba,Sr,Ca)_5(PO_4)_3(Cl,F,Br,OH):Eu^{2+},Mn^{2+},Sb^{3+}$ ;  
 $(Ba,Sr,Ca)MgAl_{10}O_{17}:Eu^{2+},Mn^{2+}$ ;  $(Ba,Sr,Ca)BPO_5:Eu^{2+},Mn^{2+}$ ;  
 $(Sr,Ca)_{10}(PO_4)_6*nB_2O_3:Eu^{2+}$ ;  $2SrO*0.84P_2O_5*0.16B_2O_3:Eu^{2+}$ ;  
 $Sr_2Si_3O_{8+2}SrCl_2:Eu^{2+}$ ;  $Ba_3MgSi_2O_8:Eu^{2+}$ ;  $Sr_4Al_{14}O_{25}:Eu^{2+}$ ;  $BaAl_8O_{13}:Eu^{2+}$ ;  $2SrO-0.84P_2O_5-0.16B_2O_3:Eu^{2+}$ ;  $(Ba,Sr,Ca)Al_2O_4:Eu^{2+}$ ;  $(Y,Gd,Lu,Sc,La)BO_3:Ce^{3+},Tb^{3+}$ ;  
 $(Ba,Sr,Ca)_2(Mg,Zn)Si_2O_7:Eu^{2+}$ ;  $(Sr,Ca,Ba)(Al,Ga,In)_2S_4:Eu^{2+}$ ;  
 $(Y,Gd,Tb,La,Sm,Pr,Lu)_3(Al,Ga)_5O_{12}:Ce^{3+}$ ;  $(Ca,Sr)_8(Mg,Zn)(SiO_4)_4Cl_2:Eu^{2+},Mn^{2+}$ ;  $Na_2Gd_2B_2O_7:Ce^{3+},Tb^{3+}$ ;  $(Ba,Sr)_2(Ca,Mg,Zn)B_2O_6:K,Ce,Tb$ ;  
 $(Sr,Ca,Ba,Mg,Zn)_2P_2O_7:Eu^{2+},Mn^{2+}$ ;  $(Ca,Sr,Ba,Mg)_{10}(PO_4)_6(F,Cl,Br,OH):Eu^{2+},Mn^{2+}$ ;  
 $(Gd,Y,Lu,La)_2O_3:Eu^{3+},Bi^{3+}$ ;  $(Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+}$ ;  
 $(Gd,Y,Lu,La)VO_4:Eu^{3+},Bi^{3+}$ ;  $(Ca,Sr)S:Eu^{2+}$ ;  $SrY_2S_4:Eu^{2+}$ ;  $CaLa_2S_4:Ce^{3+}$ ;  
 $(Ca,Sr)S:Eu^{2+}$ ;  $3.5MgO*0.5MgF_2*GeO_2:Mn^{4+}$ ;  $(Ba,Sr,Ca)MgP_2O_7:Eu^{2+},Mn^{2+}$ ;  
 $(Y,Lu)_2WO_6:Eu^{3+},Mo^{6+}$ ;  $(Ba,Sr,Ca)_xSi_yN_z:Eu^{2+}$ .

14. (Previously presented) A lighting apparatus for emitting white light comprising:  
a UV light source emitting radiation having a peak emission in the UV range; and  
a phosphor composition radiationally coupled to the light source, the phosphor composition comprising  $(\text{Sr},\text{Ba},\text{Ca})_2\text{SiO}_4:\text{Eu}$ , one or more garnet phosphors having the general formula  $(\text{Y},\text{Gd},\text{La},\text{Lu},\text{T},\text{Pr},\text{Sm})_3(\text{Al},\text{Ga},\text{In})_5\text{O}_{12}:\text{Ce}$  and a magnesium fluorogermanate phosphor having the formula  $\text{Mg}_4\text{FGeO}_6:\text{Mn}^{4+}$ .
15. (Original) The lighting apparatus of claim 14, wherein the light source is a semiconductor LED.
16. (Original) The lighting apparatus of claim 14, wherein the LED comprises a nitride compound semiconductor represented by the formula  $\text{In}_i\text{Ga}_j\text{Al}_k\text{N}$ , where  $0 \leq i$ ;  $0 \leq j$ ,  $0 \leq K$ , and  $i + j + k = 1$ .
17. (Original) The lighting apparatus of claim 14, wherein said light source is an organic emissive structure.
18. (Original) The lighting apparatus of claim 14, wherein the phosphor composition is coated on the surface of the light source.
19. (Original) The lighting apparatus of claim 14, further comprising an encapsulant surrounding the light source and the phosphor composition.
20. (Original) The lighting apparatus of claim 14, wherein the phosphor composition is dispersed in the encapsulant.
21. (Original) The lighting apparatus of claim 14, further comprising a reflector cup.

22. (previously presented) The lighting apparatus of claim 14, wherein said  $(\text{Sr}, \text{Ba}, \text{Ca})_2\text{SiO}_4:\text{Eu}$  phosphor comprises  $(\text{Sr}_{0.95}\text{Ba}_{0.025}\text{Eu}_{0.025})_2\text{SiO}_4$ .
23. (Original) The lighting apparatus of claim 14, wherein said phosphor composition comprises  $(\text{Sr}_{0.58}\text{Ca}_{0.36}\text{Eu}_{0.06})_2\text{SiO}_4$ .
24. (Original) The lighting apparatus of claim 23, wherein said apparatus has a color point with a ccx value of 0.5286 and a ccy value of 0.4604.
25. (Original) The lighting apparatus of claim 14, wherein said phosphor composition further comprises one or more additional phosphors.
26. (Previously Presented) The lighting apparatus of claim 25, wherein said one or more additional phosphors are selected from the group consisting of  $(\text{Ba}, \text{Sr}, \text{Ca})_5(\text{PO}_4)_3(\text{Cl}, \text{F}, \text{Br}, \text{OH}):\text{Eu}^{2+}, \text{Mn}^{2+}, \text{Sb}^{3+}$ ;  $(\text{Ba}, \text{Sr}, \text{Ca})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $(\text{Ba}, \text{Sr}, \text{Ca})\text{BPO}_5:\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $(\text{Sr}, \text{Ca})_{10}(\text{PO}_4)_6 * n\text{B}_2\text{O}_3:\text{Eu}^{2+}$ ;  $2\text{SrO} * 0.84\text{P}_2\text{O}_5 * 0.16\text{B}_2\text{O}_3:\text{Eu}^{2+}$ ;  $\text{Sr}_2\text{Si}_3\text{O}_8 * 2\text{SrCl}_2:\text{Eu}^{2+}$ ;  $\text{Ba}_3\text{MgSi}_2\text{O}_8:\text{Eu}^{2+}$ ;  $\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Eu}^{2+}$ ;  $\text{BaAl}_8\text{O}_{13}:\text{Eu}^{2+}$ ;  $2\text{SrO} * 0.84\text{P}_2\text{O}_5 * 0.16\text{B}_2\text{O}_3:\text{Eu}^{2+}$ ;  $(\text{Ba}, \text{Sr}, \text{Ca})\text{Al}_2\text{O}_4:\text{Eu}^{2+}$ ;  $(\text{Y}, \text{Gd}, \text{Lu}, \text{Sc}, \text{La})\text{BO}_3:\text{Ce}^{3+}, \text{Tb}^{3+}$ ;  $(\text{Ba}, \text{Sr}, \text{Ca})_2(\text{Mg}, \text{Zn})\text{Si}_2\text{O}_7:\text{Eu}^{2+}$ ;  $(\text{Sr}, \text{Ca}, \text{Ba})(\text{Al}, \text{Ga}, \text{In})_2\text{S}_4:\text{Eu}^{2+}$ ;  $(\text{Y}, \text{Gd}, \text{Tb}, \text{La}, \text{Sm}, \text{Pr}, \text{Lu})_3(\text{Al}, \text{Ga})_5\text{O}_{12}:\text{Ce}^{3+}$ ;  $(\text{Ca}, \text{Sr})_8(\text{Mg}, \text{Zn})(\text{SiO}_4)_4\text{Cl}_2:\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $\text{Na}_2\text{Gd}_2\text{B}_2\text{O}_7:\text{Ce}^{3+}, \text{Tb}^{3+}$ ;  $(\text{Ba}, \text{Sr})_2(\text{Ca}, \text{Mg}, \text{Zn})\text{B}_2\text{O}_6:\text{K}, \text{Ce}, \text{Tb}$ ;  $(\text{Sr}, \text{Ca}, \text{Ba}, \text{Mg}, \text{Zn})_2\text{P}_2\text{O}_7:\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $(\text{Ca}, \text{Sr}, \text{Ba}, \text{Mg})_{10}(\text{PO}_4)_6(\text{F}, \text{Cl}, \text{Br}, \text{OH}):\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $(\text{Gd}, \text{Y}, \text{Lu}, \text{La})_2\text{O}_3:\text{Eu}^{3+}, \text{Bi}^{3+}$ ;  $(\text{Gd}, \text{Y}, \text{Lu}, \text{La})_2\text{O}_2\text{S}:\text{Eu}^{3+}, \text{Bi}^{3+}$ ;  $(\text{Gd}, \text{Y}, \text{Lu}, \text{La})\text{VO}_4:\text{Eu}^{3+}, \text{Bi}^{3+}$ ;  $(\text{Ca}, \text{Sr})\text{S}:\text{Eu}^{2+}$ ;  $\text{SrY}_2\text{S}_4:\text{Eu}^{2+}$ ;  $\text{CaLa}_2\text{S}_4:\text{Ce}^{3+}$ ;  $(\text{Ca}, \text{Sr})\text{S}:\text{Eu}^{2+}$ ;  $3.5\text{MgO} * 0.5\text{MgF}_2 * \text{GeO}_2:\text{Mn}^{4+}$ ;  $(\text{Ba}, \text{Sr}, \text{Ca})\text{MgP}_2\text{O}_7:\text{Eu}^{2+}, \text{Mn}^{2+}$ ;  $(\text{Y}, \text{Lu})_2\text{WO}_6:\text{Eu}^{3+}, \text{Mo}^{6+}$ ;  $(\text{Ba}, \text{Sr}, \text{Ca})_x\text{Si}_y\text{N}_z:\text{Eu}^{2+}$ .
27. (Currently amended) A lighting apparatus for emitting white light comprising:  
a semiconductor light source emitting radiation having a peak emission in the UV range; and  
a phosphor composition radiationally coupled to the light source, the phosphor composition comprising  $(\text{Sr}, \text{Ba}, \text{Ca})_2\text{SiO}_4:\text{Eu}$ , and one or more

additional phosphors, one or more of  $(\text{Sr}, \text{Mg}, \text{Ca}, \text{Ba}, \text{Zn})_2\text{P}_2\text{O}_7:\text{Eu}, \text{Mn}$ ;  $(\text{Ca}, \text{Sr}, \text{Ba}, \text{Mg})_5(\text{PO}_4)_3(\text{Cl}, \text{F}, \text{OH}):\text{Eu}, \text{Mn}$ ;  $(\text{Sr}, \text{Ba}, \text{Ca})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}, \text{Mn}$ ; and  $\text{Mg}_4\text{FGeO}_6:\text{Mn}^{4+}$ ; wherein said  $(\text{Sr}, \text{Ba}, \text{Ca})_2\text{SiO}_4:\text{Eu}$  phosphor comprises  $(\text{Sr}_{0.95}\text{Ba}_{0.025}\text{Eu}_{0.025})_2\text{SiO}_4$ ,  $(\text{Sr}_{0.58}\text{Ca}_{0.36}\text{Eu}_{0.06})_2\text{SiO}_4$ , or blends thereof.

28. (Original) The lighting apparatus of claim 27, wherein the light source is a semiconductor LED.
29. (Original) The lighting apparatus of claim 27, wherein the LED comprises a nitride compound semiconductor represented by the formula  $\text{In}_i\text{Ga}_j\text{Al}_k\text{N}$ , where  $0 \leq i; 0 \leq j, 0 \leq K$ , and  $i + j + k = 1$ .
30. (Original) The lighting apparatus of claim 27, wherein said light source is an organic emissive structure.
31. (Original) The lighting apparatus of claim 27, wherein the phosphor composition is coated on the surface of the light source.
32. (Original) The lighting apparatus of claim 27, further comprising an encapsulant surrounding the light source and the phosphor composition.
33. (Original) The lighting apparatus of claim 27, wherein the phosphor composition is dispersed in the encapsulant.
34. (Original) The lighting apparatus of claim 27, further comprising a reflector cup.
35. (Canceled)
36. (Canceled)
37. (Currently amended) The lighting apparatus of claim 27 36, wherein said apparatus has a color point with a ccx value of 0.5286 and a ccy value of 0.4604.

38. (Currently amended) The lighting apparatus of claim 27, wherein said phosphor composition comprises one or more of (Sr,Mg,Ca,Ba,Zn)<sub>2</sub>P<sub>2</sub>O<sub>7</sub>:Eu,Mn; (Ca,Sr,Ba,Mg)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,OH):Eu,Mn; (Sr,Ba,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu,Mn; and Mg<sub>4</sub>FGeO<sub>6</sub>:Mn<sup>4+</sup> further comprises one or more additional phosphors.
39. (Currently amended) The lighting apparatus of claim 27 38, wherein said one or more additional phosphors are selected from the group consisting of (Ba,Sr,Ca)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,Br,OH):Eu<sup>2+</sup>,Mn<sup>2+</sup>,Sb<sup>3+</sup>; (Ba,Sr,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Ba,Sr,Ca)BPO<sub>5</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Sr,Ca)<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>\*nB<sub>2</sub>O<sub>3</sub>:Eu<sup>2+</sup>; 2SrO\*0.84P<sub>2</sub>O<sub>5</sub>\*0.16B<sub>2</sub>O<sub>3</sub>:Eu<sup>2+</sup>; Sr<sub>2</sub>Si<sub>3</sub>O<sub>8</sub>\*2SrCl<sub>2</sub>:Eu<sup>2+</sup>; Ba<sub>3</sub>MgSi<sub>2</sub>O<sub>8</sub>:Eu<sup>2+</sup>; Sr<sub>4</sub>Al<sub>14</sub>O<sub>25</sub>:Eu<sup>2+</sup>; BaAl<sub>8</sub>O<sub>13</sub>:Eu<sup>2+</sup>; 2SrO-0.84P<sub>2</sub>O<sub>5</sub>-0.16B<sub>2</sub>O<sub>3</sub>:Eu<sup>2+</sup>; (Ba,Sr,Ca)Al<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Lu,Sc,La)BO<sub>3</sub>:Ce<sup>3+</sup>,Tb<sup>3+</sup>; (Ba,Sr,Ca)<sub>2</sub>(Mg,Zn)Si<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup>; (Sr,Ca,Ba)(Al,Ga,In)<sub>2</sub>S<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Tb,La,Sm,Pr,Lu)<sub>3</sub>(Al,Ga)<sub>5</sub>O<sub>12</sub>:Ce<sup>3+</sup>; (Ca,Sr)<sub>8</sub>(Mg,Zn)(SiO<sub>4</sub>)<sub>4</sub>Cl<sub>2</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; Na<sub>2</sub>Gd<sub>2</sub>B<sub>2</sub>O<sub>7</sub>:Ce<sup>3+</sup>,Tb<sup>3+</sup>; (Ba,Sr)<sub>2</sub>(Ca,Mg,Zn)B<sub>2</sub>O<sub>6</sub>:K,Ce,Tb; (Sr,Ca,Ba,Mg,Zn)<sub>2</sub>P<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Ca,Sr,Ba,Mg)<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(F,Cl,Br,OH):Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Gd,Y,Lu,La)<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup>,Bi<sup>3+</sup>; (Gd,Y,Lu,La)<sub>2</sub>O<sub>2</sub>S:Eu<sup>3+</sup>,Bi<sup>3+</sup>; (Gd,Y,Lu,La)VO<sub>4</sub>:Eu<sup>3+</sup>,Bi<sup>3+</sup>; (Ca,Sr)S:Eu<sup>2+</sup>; SrY<sub>2</sub>S<sub>4</sub>:Eu<sup>2+</sup>; CaLa<sub>2</sub>S<sub>4</sub>:Ce<sup>3+</sup>; (Ca,Sr)S:Eu<sup>2+</sup>; 3.5MgO\*0.5MgF<sub>2</sub>\*GeO<sub>2</sub>:Mn<sup>4+</sup>; (Ba,Sr,Ca)MgP<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Y,Lu)<sub>2</sub>WO<sub>6</sub>:Eu<sup>3+</sup>, Mo<sup>6+</sup>; (Ba,Sr,Ca)<sub>x</sub>Si<sub>y</sub>N<sub>z</sub>:Eu<sup>2+</sup>.
40. (Original) A phosphor blend including (Sr,Ba,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu and at least one of (Sr,Mg,Ca,Ba,Zn)<sub>2</sub>P<sub>2</sub>O<sub>7</sub>:Eu,Mn; (Ca,Sr,Ba,Mg)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,OH):Eu,Mn; (Sr,Ba,Ca)MgAl<sub>10</sub>O<sub>17</sub>:Eu,Mn; Mg<sub>4</sub>FGeO<sub>6</sub>:Mn<sup>4+</sup>; and one or more garnet phosphors having the general formula (Y,Gd,La,Lu,T,Pr,Sm)<sub>3</sub>(Al,Ga,In)<sub>5</sub>O<sub>12</sub>:Ce.
41. (Original) The phosphor blend of claim 40 comprising (Sr<sub>0.95</sub>Ba<sub>0.025</sub>Eu<sub>0.025</sub>)<sub>2</sub>SiO<sub>4</sub>.
42. (Original) The phosphor blend of claim 40 comprising (Sr<sub>0.58</sub>Ca<sub>0.36</sub>Eu<sub>0.06</sub>)<sub>2</sub>SiO<sub>4</sub>.

43. (Previously Presented) The phosphor blend of claim 40, wherein said phosphor blend is capable of absorbing the radiation emitted by a light source having a peak emission in the UV range and emitting radiation that, when combined with said radiation from said light source, produces white light.
44. (Canceled)
45. (previously presented) The lighting apparatus of claim 1, wherein said semiconductor light source has a peak emission at about 405 nm.
46. (New) A lighting apparatus for emitting white light comprising:  
a semiconductor light source emitting radiation having a peak emission in the UV; and  
a phosphor composition radiationally coupled to the light source,  
the phosphor composition comprising  $(Sr,Ba,Ca)_2SiO_4:Eu$ , one or more garnet phosphors having the general formula  $(Y,Gd,La,Lu,T,Pr,Sm)_3(Al,Ga,In)_5O_{12}:Ce$ , and at least one phosphor selected from the group consisting of  $(Sr,Mg,Ca,Ba,Zn)_2P_2O_7:Eu,Mn$ ;  $(Ca,Sr,Ba,Mg)_5(PO_4)_3(Cl,F,OH):Eu,Mn$ ; and  $(Sr,Ba,Ca)MgAl_{10}O_{17}:Eu,Mn$ .